

RECORD

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Book 29

Collection and Field Note Book

No. 29

(Feb. 4, 1951 - Sept. 30, 1951)

(33255 - 33606)

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MARYLAND

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Book 29
Nov. 23, 1955 - 2000



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1951 Hawaiian Is.

Feb. 4 - Makaleha gulch,
Puu Keala, Waianae Mts.
bottom of gulch near
mouth.

Forest in lower part
of gulch bottom is almost
pure *Eugenia cuminii*,
except very near the
mouth, where stands
of *Leucaena glauca* are
common. In the Eugenia
forest are numbers of
large *Aleurites moluccana*,
taller than most of the
Eugenia. On the floor of
this forest are abundant
seedlings of *Aleurites*,
none of them much more
than 3-4 dm. tall. Many
of these have the leaves
conspicuously blotched
with yellow! Apparently
these do not persist very
long, and their presence
does not indicate any
successional change in
the vegetation.

As one goes up the gulch
seedlings and young
trees of native species,
i.e. *Erythrina*, *Canthium*,
etc. appear.

Oahu

ridge bet. Middle and East
Falls of East Makaleha gulch
Lower end of ridge
covered by *Eugenia*, *Psidium*,
guajava, *Grevillea*, *Eucal-*
yptus, etc. with *Lantana*
in undergrowth.
Nephrolepis hirsutula
and *N. exaltata* common.

Canthium increasingly
common upward. *Styphelia*
occasional, also *Euphorbia*.

Eragrostis grandis
becomes common on ridge
and inhabits open places.
Dodonaea occasional.

Upward, native trees -
Osmanthus, *Metrosideros*, ^{Diospyros}
etc. become dominant, with
Canthium.

Ridge from 1000-1800 feet.

Descending from ridge to
bottom of east branch of
middle falls. The
forest is a mixed
cover of native trees -
canopy largely *Metrosideros*
and *Vioriparus*, with
Bobea, *Psychotria*,
Tetrapleandra, *Drackena*,
Santalum, *Osmanthus*, ^{Mysore}, etc.
all occasional to common. A
sapling layer, trees 2-4 cm. diam.

not checked

6

Feb. 4-1951

Labels typed
is quite conspicuous,
almost all *Diospyros*
ferruginea. No *Metrosideros*
saplings. Few of other
genera. No herb or
sub-shrub layer. Ground
quite bare - steep, little
soil on base nodules
vesicular basalt.

Toward bottom of gulch
Microlepia becomes
common on ground,
also *Doodia*. A few
Alectryon trees and
a very few *Dryopteris*.

At bottom of gulch, some
Aleurites, with *Dryopteris*
dentata (?)

Lower down in gulch

with L. Hathaway
W. 33255
5
Mouth of main Makaleha
gulch
Andropogon
one clump seen along
trail in weedy bank

Ridge between east and
center forks of east
Makaleha gulch
steep brushy ridge
with small trees and openings

2 56 *Drymaria conifera* (L.) Willd.
common in openings on rocks

2 57 *Cladonia*
common in rocky openings

Haw. Is. - Oahu

7

Cantium becomes
abundant. *Diospyros*
stays ss. Most of the
other trees drop out. *Lapindus*
ovalensis becomes common.
Mezoneuron colubrinifolium,
and *Reynoldsia* appear.
Canavalia and *Caesalpinia*
are common lianes.
Lantana is common, very
elongate. The soil is
thicker here, at angle of
rest between small
cliffs. A few ferns.

caespitose, erect

procumbent to ascending,
fruiting pedicels caducous,
very viscid
sticky

not checked 1951 Haw. Is.

Labels typed

8

33258 *Nephrolepis hirsutula*
common in edges of
thickets on ridge

east branch of middle
fork of East Makalaha g.
in forest on steep ^{west} slope
look up #33258a *Lindernia glomerata* L.
rare, in dense shade
on rocks with pockets of soil

33259 *Diellia*

occasional in rock
crevices in forest with
some Lantana

60 *Alectryon macrocarpus*

occasional locally in forest
near bottom of gulch

61 *Megoneuron kavaicense*
occasional in scrubby
forest on slopes near bottom
of gulch

62 *Perandia*

occasional in dense
scrubby forest with
little undergrowth on
steep slope

63 *Colubrina oppositifolia*
occasional on steep slope
in scrubby forest

64 *Megoneuron kavaicense* (Mann) Hbd.
same

65 *Vernonia cinerea*
on shaded rocks near
bottom of gulch

Oahu

9

Grande ascending,
plane.

pale green, weak

tree 8 m. tall,

(Mann) Hbd. slender tree, 4 m. tall,
4 cm. thick, buds purple
(flowers seen on other plant
deep old-rose)

slender shrub 2 m.
tall, stigmas colorless

tree 10 m. tall

slender ~~almost~~ tree with
long branches, 5 m. tall.
flowers white

not checked

1951

Haw. Is.

10

Labels typed

33266 *Cyperus*

common on soil ~~area~~
Talus near bottom of gulch

Feb. 9 - Flying over W. Molokai
C.R. Wentworth says the
"desert strip" has become less
conspicuous in last few
years - prob. due to efforts
of Molokai Ranch.

~~Ridgeless, on leeward side~~

Feb. 9 - Flying over Lanai
Some sediment staining
water reddish at west
end. Large bare areas.
Small area of forest
still left, surrounded
by system of wind breaks.

Mountain seems
completely covered by
vegetation, though this
is in places rather thin.
Lennox said all cattle have been removed.

Feb. 9 - Kahoolawe from
air - mostly has some
vegetation - Prosopis,
some flat areas of
grass, etc.

Feb. 9 Molokini -
practically no vegetation.

Oahu - Lanai - Molokai
Kahoolawe, Maui 11

solitary culms,
spikelets green

Feb. 9 - South coast of
East Maui from air -
several tuff cones on
south slope - oriented
differently than Molokini,
probably because of
influence of land
mass ~~on~~ on wind.

Two fairly recent
lava flows have
little or no vegetation.
except in kipukas.
Whole slope seems
to have very sparse
vegetation.

On West Maui some
ridges are bare and
conspicuously eroded.
The whole West Maui
cone is spectacularly
dissected, as viewed
from air.

Feb. 9 - Hamakua Coast from air.

Kohala section, to is profoundly different from part between this and Waimea - west part relatively smooth, gently sloping almost to sea, where it is slightly cliffed, sticking out into ocean ^{about} farther than cliff section, and covered by sugar cane fields. Kohala Mts. part deeply cut by gulches, completely forested, all spurs sharply and perpendicularly truncated a cliffed, all cut cleanly to same distance, the line of cliffs forming a straight line suggesting a fault. The difference between these two sections really more striking than that between Kohala Mts. and Mauna Kea lava. Must indicate a difference either in age or character of material.

Coast between Waimea and Kilo all cultivated in cane, up a considerable distance. Then there is a belt of forest, then vast Parker Ranch pastures - these not extending quite to area above Kilo, which is forested. Gulches coming down across this forested coast of low cliffs, much lower than Kohala Mts. cliffs, but in equally straight line.

Sea much stained by sediment below place in active cultivation now.

Around Kilo airport forests of almost pure Pandanus, quite variable in appearance. Pluchea odorata extremely abundant and extremely luxuriant in this region, and for several miles toward Olaa, grows up to 5 m. tall.

Between airport and Olaa a great many exotic trees - Cecropia, Heliocarpus, Pterychosperma, etc. all very

1951 Haw. I.

well developed. Palms especially must be many years old.

Feb. 9 - Around 29 miles
Forests of Metrosideros,
rather uniform in
appearance, with
conspicuous under-
story of Cibotium.

Juliette says Cibotium
being harvested in
large quantities -
trunks being used for
many things - substrate
for orchids, baskets, etc.
Mucilage from stipes
used for "Lumulsaide"
to make oil sprays
spread more easily

Feb. 9 - North rim of
Kilauea Crater - Uniform,
sparse forest of dwarfed (?)
Metrosideros - very
uniform, of a grayish
tint, leaves densely tomentose
beneath. Trees up to 4-5'
m. tall. Some *Hedychium*
cystothecoides, a few *S. pellucens*
Vaccinium, *Cyphoma endivoides*,
Polyphodium pellucidum,
tangles of *Gleichenia*

linearis var. *tomentosa*
in openings.

16

1951 Haw. I.s.

✓ Feb. 10 - Thurston Lava Tube,
Kilauea

Wet forest of *Metrosideros*
with prominent lower
layer of *Cibotium*,
invaded by such exotics as
Fuchsia, *Rubus*, *Tibouchina*,
Hypericum japonicum, etc.

33267 *Cibotium hawaiiense*
single plant seen, with
the two commoner species

1 68 *Hymenophyllum lanceolatum*
occasional, on tree trunks

1 69 *Polyodium*
occasional, in moss
cushions on tree trunks

1 70 *Psilotum*
occasional, locally, on
Cibotium trunks

✓ 71 *Hydrocotyle sibthorpioides* Lam.
common along rock wall at end of tube

1200m,
3900'

Hawaii

17

slender tree 3 m. tall,
appearing to become larger
upward; upper leaf
bases persistent as erect
stubs 1-2 dm. long,
pinnules slightly
glaucous beneath,
sub-glossy light
green above.

fronds strongly curved downward,
stems stiff, dull green.
stiffly erect

stems horizontal, then
curving downward,
round at base, becoming
compressed, then triangular
below lowest fork,
triangular to second fork,
then flattened; border
conspicuous, rounded,
costae noticeable; surface
dull, stomata (?) noticeable.
prostrate, gray-green.
flowers green.

1951 Haw. Is.

18

rr Feb. 11 - Kipuka Puanua
(Bird Park), Kilanea

open park-like woodland
with lush grass, deep soil

33272 *Nephrolepis exaltata*
forming large colonies

4. 73 *Myrsine*
common

13. 74 *Gauldia terminalis* var.
rare - one plant seen

3. 75 *Pelea hawaiiensis* (Wawra) var. *gaudichaudii* (St. John)
occasional

4. 76 *Alyxia olivaeformis*
occasional in low thickets

2. 77 *Coprosma*
common

2. 78 *Lophira chrysophylla* Seem.
common second-story tree

13. 79 *Pipturus albidus*
common second-story tree

2. 80 *Psychotria*
abundant, trees mostly young

4. 81 *Myrsine*
common

1300 m.
4200 ft'

Hawaii

19

fronds erect, flat.
somewhat indeterminate in form.
erect tree 10 m. tall,
flowers crimson-pink,
mature fruit black,
stigmas irregular,
of "mace-head" type.
translucent young
growth purple.

shrub 3 m. tall,
diffuse, mature
fruit blue-black,
clusters spherical, compact.

spreading, umbrella-crowned tree, 5 m. tall.
fls greenish, fruit dry.
shrubby vine corolla
tube salmon, lobes greenish-yellow

small slender tree
4 m. tall, flowers green.
slender tree 4 m. tall,
leaves green
low rounded tree 4 m. tall,
ripe receptacles white,
fleshy, fruit ashene green.
small tree 4 m. tall, ripe
fruit yellow.

scrappy tree 6 m. tall,
flowers purple, perianth mostly shed
translucent, young growth red,

fruit
black

20

1951 Haw. Is.

This kipukha, at present, has an open, park-like appearance, likely due to the grazing-history. No animals now!

Grass knee-deep, lush, mostly *Sporobolus elongatus*, *Cynodon dactylon*, *Paspalum dilatatum*, *Anthoxanthum odoratum*, *Cyperus brevifolius*, etc.

Colonies of *Rubus pensilvanicus* some m. broad are common, up to 1 m tall, tangled, in full flower, some fruit.

Colonies of *Nephrolepis* in more shaded areas.

One colony of

" "

Feb. 11. North rim of Kilaeua Crater, above Military Camp

33282 *Bulbostylis capillaris* (L.) C.B.C.

small colony on loose ash

Hawaii

21

Laplings 1-5 m. tall are locally abundant, of which most are *Psychotria*, ~~and~~ some *Pipturus*, a few *Myrsine*, some *Coprosma*, *Acacia koa*, etc. No *lapindus* seedlings seen.

Mature trees mainly *Lapindus*, *Metrosideros*, *Acacia*, *Myrsine*, etc.

The type tree of *Gouldia terminalis* var. *antiqua* f. *acuta* is dead, trunk still standing. No other trees seen.

Lapindus is deciduous, irregularly, a few trees still green, mostly bare or fast losing yellow leaflets.

1230 m.
4000'

tufts

1951 Haw. Is.

22

Feb. 11 - Road to Kipuka Puanuu
1.5 mi. w. of Kilauea Military
Camp

Area of mixed *Styphelia*
and *Dodonaea* scrub
killed back by frost,
quite local, on very gentle
slope, in slight hollow,
scattered *Metrosideros*
trees, these rather ~~small~~,
bare spaces largely
covered by *Cladonia*
(aff. *C. rangiferina*), with
several herbs common
enough, also *Vaccinium*,
one or two young *Metrosideros*
seedlings, partly
killed by frost.

Specimens to illustrate
plants plotted.

33283 *Dodonaea viscosa*

common

34 *Dubautia*
occasional

35 *Cladonia*
abundant on bare spots
on compact ash-soil

36 *Dodonaea viscosa*
common

37 *Digitaria chinensis*
common

38 *Styphelia*
abundant, dominant

Hawaii

1250 m.

4050'

23

Laid out a 50 x 50'
plot in this ~~frosted~~,

Mixed *Styphelia* and *Dodonaea*
scrub, with scattered small
Metrosideros, on volcanic ash
on gentle slope (to illustrate plants
of permanent quadrat #1)

p. 22

"

et

n. 22

Mixed Styphelia and Dodonaea
scrub, with scattered small
Metrosideros, on volcanic ash
on gentle slope (to illustrate plants
of permanent quadrat #1)

$$\begin{array}{r} 3900 \\ - 4 \\ \hline 19600 \\ - 200 \\ \hline \end{array}$$

1951 Haw. Is.

22

Feb. 11 - Road to Kipukka Puaulu
1.5 mi. w. of Kilaeua Military
Camp

Area of mixed *Styphelia*
and *Dodonaea* scrub
killed back by frost,
quite local, on very gentle
slope, in slight hollow,
scattered Metrosideros
trees, these rather ~~small~~,
bare spaces largely
covered by *Cladonia*
(aff. *C. rangiferina*), with
several herbs common
enough, also *Vaccinium*,
one or two young Metrosideros
seedlings, partly
killed by frost.

Specimens to illustrate
plants plotted.

33283 *Dodonaea viscosa*

common

84 *Dubautia*
occasional

3. 86 *Cladonia*
abundant on bare spots

on compact ash-soil

85 *Dodonaea viscosa*
common

87 *Digitaria chinensis*
common

88 *Styphelia*
abundant, dominant

Hawaii

23

12:30 m.
4050'

Laid out a 50' x 50'
plot in this frost-killed
area, counted and
located shrubs in
10' x 50' strip and on
diagonal transect,
herbs on 5' x 5' square.

Frost damage apparent
to *Dodonaea*, *Styphelia*, *Vaccinium*
and young *Metrosideros*.
Mostly killed to ground
but sprouting from
roots, but some
apparently killed
outright.

Plot no. # in plot book.

shrub 0.8 m. tall,
- spreading, fruit red.
stiffly erect shrub
leaves stiff, somewhat
glossy.

shrub 1 m. tall,
fruits red.
spreading tufts

shrub 0.7 m. tall,
fruit purple.

24 1951 Haw. Is.

- 33289 *Vaccinium*
common
1 90 *Hypochaeris radicata*
common
4 91 *Metrosideros*
common
13 92 *Congya*
very common

xx Feb. 12 - Kilanea Military Camp 1200 m.
Kilanea

disturbed ground around
establishment, compact soil
3 93 *Andropogon virginicus*
small colony in open
dry or hard ground

3 94 *Lonicera japonica* Thunb.
apparently spontaneous
in edges of thicket

2 95 *Rubus pensilvaniensis*
common generally,
especially in edges of
thickets.

? 96 *Plantago* form of *longistylis*?
common on bare ~~ash~~
shots on ash soil near camp

Hawaii

25

fruit red
flowers yellow.
erect tree 6 m. tall,
stamens scarlet
erect green with
prominent rosette
at base until anthesis,
flowers white.

caespitose, erect.

woody vine, f. veins
not purple, flowers
white turning yellow,
fragrant.
tangled elongate
branching canes;
apparently evergreen,
flowers white, 3 cm.
across; fruit black
and glossy when ripe,
pleasantly tart.
seapes dead

Feb. 12 - flat east of
Kilauea Military Camp
sparse scrubby woodland
of Metrosideros, with
occasional Santalum.
Open part with low
sparse scrub of Styphelia,
young Metrosideros, Vaccinium
etc. tufts of grass and sedges,
some hadderia, Polypodium,
Lycopodium, Pteridium
(fronds mainly killed by frost)
patches of Cladonia and mosses.

- 33297 Dodonaea viscosa
occasional
- 3 98 Cladonia spp. rangiferina
abundant on bare spots
- 2 99 Plantago
rare in sheltered spot
- 33300 hadderia cyathoides
common
- 01 moss
occasional
- 02 Santalum ellipticum v. paniculatum
occasional
- 03 Vaccinium
very common

1200 m. Permanent quadrat
#2

These species found
either in or very near
the quadrat.

shrub up to 1 m. tall,
fruits reddish, 3, or rarely 2, in.

spikes dead

trunk 1 m. tall, fronds
ascending, pinnae
drooping, young
growth reddish "cinnamon"
forming cushions

spreading rounded tree
5 m. tall, leaves yellow-green,
glaucous beneath, dull
above, flowers fragrant,
yellow-green without,
maroon within.

dwarf shrub, up to 3 dm. rarely
more tall, flowers vermillion,
fruit orange-red.

28 1951 Haw Is.

- 33304 *Cladium angustifolium*,
common
05 *Benthamia ellipticum* v. *paniculatum*,
occasional
- 2 06 *Carex*
rare, in shade of tree
2 07 *Lepidium*
on ground or loose duff
4 08 moss
common epiphytic on tree-trunks
and on debris on ground
3 09 lichen
common on tree trunks, dead
branches and duff on ground
2 10 *Polypodium pellucidum*,
very common generally
3 11 *Metrosideros*,
dominant tree
- 12 *Styphelia tameiameiae*,
abundant, dominant
in low scrub in openings,
13 *Lycopodium cernuum*,
common in openings,
14 *Pteridium aquilinum*,
common in openings,
all all ponds seen were
dead, probably from frost
15 *Coprosma ernodeoides*,
common
16 *Cyperus brevifolius*,
rare - this plant in ^{top} fork of tree in humus

Hawaii

29

- caespitose, erect,
leaves bright green
small tree 3 m. tall, leaves
yellow-green, glaucous
beneath, dull above; fruit
immature.
- caespitose, culms
spreading-arching,
dark red-brown, green
at edges of colony.
- at ponds stiffly
erect, solitary.
erect small tree 2 m.
tall, others much
larger, stamens crimson-
scarlet.
shrub 0.4 m. tall,
flowers white
- creeping shrub; leaves
glossy; all seen were sterile
heads green

30 1951 Haw. Is.

- 33317 now
5 common, forming
7 18 *Thuidium*
common in openings
19 *Hypochaeris radicata*,
~~common~~ common in bare places
2 20 *Fragaria*
common in open and
sheltered places,
forming colonies
3 21 very common in openings
1 22 common
3 23 *Gahnia gahniaeformis*
common
1 24 *Aporobolus elongatus*
common
1 25 *Luzula campestris* var.
occasional
5 26 *Dubautia*
common, this plant
in *gleichenia* ~~thicket~~
tangle in ~~deep~~ regim
of deep cracks
2 27 *Wikstroemia*
at foot of cliff, on rocks

Hawaii

31

- forming cushion
forming yellow mats.
- is open
- sedge erect, ligule
yellow.
- fruit white,
pleasantly tart
but with little flavor.
culms and spikes
purple,
forming clumps,
inflorescences dead
and shattered
caespitose, small tufts
forming clumps
inflorescences dead.
scrambling, leaves
stiffish, flowers
yellow.
small shrub 1 m. tall,
bark very tough,
flowers yellow, fruit immature.

32

1951 Haw. I.

- Feb. 12 - Hilo airport
weedy places
- 33323 *Ageratum houstonianum*
common
- 29 *Pluchea odorata*
very abundant

v

Feb. 14 - south slopes of
Makapuu Pt. along highway
Prosopis forest on rough
broken rock. *Gossypium*
torrentosum common (seeds
collected to send to Baldwin)

30

Bidens cynapiifolia
common along roadside

Hawaii - Oahu

33

aromatic herb,
flowers lavender

aromatic shrub & m. tall,
(other larger), rounded
masses; flowers
pale dirty-lavender.

Feb. 23 - road east from Albuquerque going up the slope there is a gradual transition from gray-leaf shrubs to a mixture with *Juniperus*, then pinyon-juniper woodland then a high point with a mixture of pinyon, *Pinus ponderosa* (?) (at least a longer-leaved pine) and *juniperus* in a fairly well developed but sparse forest. This changes to a grassland with abundant, well-spaced large junipers. Eastward on the plateau this changed gradually to grassland, the junipers becoming smaller and more scarce, then vanishing. Eastward from here they reappeared in rocky situations, hilly places, etc. but never with the luxuriance seen just east of the pine forest.

Feb. 23 - seen from the air, the region east of the Balton sea, Chouteau Mts. etc. has large expanses of completely bare, apparently sandy desert. Balton sea has abundant water.

Feb. 25 - Beginn

36

37

38

1951 Virginia

" April 1 - Turkey Creek Run

"Magnolia bog" in ravine
cut in quartz gravel,
fed by ~~seepage~~ springs

33331 *Symplocarpus foetidus*
common in saturated
ground

" April 1 - 1 1/4 mi. n. of
Annandale, on Back Lick Run
in sparse beech-oak
forest on mossy earth
bluff

32 *Epipactis virginiana*
common under *Fagus*

33 *Mitchella repens* L.
common

34 *Anemone thalictroides*
occasional on roadside bank

" April 15, & 1 1/3 mi. w. of s. of
Annandale, Back Lick Drainage

^{second growth mixed}
Deciduous forest, mostly
oak and tulip tree, Ilex opaca
and *Cornus florida* in understory

35 *Viola*
sterile road-bank gravel

36 *Viola*
old road in woods

Fairfax Co

39

spathes pale green densely
mottled with purple,
plant very foetid when cut.

dry last year's plant
only seen
prostrate, leaves dull
green, pale beneath;
fruit scarlet
fls. leaves dull,
purple-glossy,
flowers pale pinkish

leaves erect, flowers
bright purple.
leaves bluish-green,
flowers bright purple.

- 37337 *Hedysotis caerulea*
 occasional in disturbed
 ground
- 38 *Goodyera pubescens*
 rare in thin forest
- 39 *Mitchella repens*
 common in woods
- 40 *Botrychium dissectum*
 rare in woods

April 20-22 - trip
 to Williamsburg and
 return - observation
 from car. (return by
 Northern Neck via Whitetree)

Cercis canadensis in
 full bloom - common
 on coastal plain, less
 so in Piedmont.
Cornus florida - common
 throughout region -
 flowering time varies
 somewhat between
 individual trees even
 in one locality. On
 Apr. 22 the majority of

- definitely perennial,
 last year's stems
 persisting; flowers
 blue-lavender with
 yellow eye.
- leaves grayish,
 veins white.
 - prostrate, dull green,
 - fruit scarlet.
 - sterile, bronze-purple

trees on the lower
 end of the northern
 neck had bracts
 fully expanded.
 In Fredericksburg
 region perhaps
 half and half
 expanded and still
 yellow. In piedmont
 very few expanded,
 mostly small and
 yellow.

42

1951 Virginia

April 21, 1 mi. e. of Williamsburg
on ~~Colonial~~ Parkway, York Co.
Bridelia vernus (L.) T. & G.
~~Scrophulariaceae~~
open grassy roadside

April 21 - Jolly's Pond, 4 mi. n.w.
of Williamsburg, James City Co.

42 *Asarum virginicum*
common on steep slope
in mixed woods
above pond

43 *Hedystis caerulea* (L.) T. & G. Hook.
common occasionally
in open places on bare
clay soil

April 21 - Powhatan Swamp,
4 mi. n.w. of Williamsburg,
James City Co.

44 *Caltha palustris*
Wooded swamp with black
muck soil,

44 *Caltha palustris*
abundant in mud

45 *Trillium pusillum*
abundant on peaty rocky
hummocks and banks

York Co. - James City Co. 43

spreading by underground rhizomes,
rays white

leaves firm, mottled
with white; flowers
short cylindric, neck
slightly constricted, lobes
slightly reflexed,
deep brown-purple
without spots
with green within,
borne under the leaves
dead leaves on the ground.
flowers very pale lavender,
tube greenish, eye yellow.

flowers bright yellow
rhizomes deeply buried,
petals white, fading
to rose purple.

March 1951 Virginia

44

April 22 - Williamsburg.

33346 *Prunus*

cultivated as ornamentals

April 22. Gray's Point,
Middlesex Co.

flood plain, silt soil

47 *Luzula bulbosa* (Wood)
common on bare soil
on roadside bank

48

local on grassy roadsides

April 23 just s.w. of Whitetown
Lancaster Co.

old fields and roadsides

49 *Anthoxanthum odoratum*
roadside

50

roadside

51 *Plantago virginica* L.
roadside

52

Cornus florida
old field, somewhat bushy

53

Cerastium vesicaria L.
abundant on roadside

James City Co. - Lancaster Co. 45

small spreading tree;
leaves glossy; flowers white.

small tufts with
white clustered tubers
at base, perianth dark
brown with paler edges
flowers very pale
blue-lavender

dense tufts

flowers pale blue-lavender

small tree 6 m. tall; bark
white with deep purple
apex, buds unopened.
petals white, plant
ascending

46

1951 Virginia

vv April 27 - Sleepy Hollow,
1 mi. s. of Falls Church,
e. of Tripper's Run

33354 *Viola papilionacea* f. *albiflora*
abundant locally on
rich bottom land under
trees (descended from
one clump, planted in
1941 or 1942)

vv April 29 - Woodburn Road
Bridge, Accotink Creek,
2 1/2 mi. w. n. w. of Annandale
mossy bank above creek.

55 *Mitchella repens* L.
abundant, ~~sunder~~ sun

56 Luzula
just above stream

57 *Stellaria pubera*
common

58 *Anemone* *thalictroides*
locally abundant

59 *Hedysarum caeruleum*
locally abundant

60 Luzula
common

silty flood-plain or
bottom-land, *Betula* forest

61 *Erythronium americanum*
abundant almost forming
turf. Bulbs buried very
deeply in mature plant.

Fairfax Co.

47

Coronilla glauca out as
far now here as in
Northern Neck on Apr. 22.
flowers inconspicuous,
bicolor - dull lavender
marginally and dull violet centrally
on petals,
so-called "Confederate violet"
from "blue and gray combination."

80 m.
deciduous forest

flowers white;
leaves dull ~~dark~~ green.
petals pinkish-white;
leaves glaucous.
flowers lavender
with yellowish tube
and eye

leaves not mottled,
green; fruit ovary
obvoid, erect.

May 5 1951 Virginia

48

- 37762 *Podophyllum peltatum*
forming large colonies
2 63 *Cardamine*
one small colony seen
2 64 *Claytonia virginiana*
abundant

- 2 65 *Ranunculus abortivus*
common

- 14 66 *Viola*
occasional

- 4 67 *Callitricha*
large masses in a
small tributary, in
gravelly-clay bottom
2-4 dm. deep.

May 5 - 2 mi. s.e. of
Independent Hill, Prince William Co.
edge of small thicket

- 5 68 *Rhododendron nudiflorum*
common

Fairfax Co. - Prince William Co.
49

- rhizome buried
horizontal; bud only
erect from moniliform
rhizome; flowers white.
leaves fleshy, tuber
fleshy, buried, flower
white fading pink
erect petals pale
yellow.
erect, flower yellow,
~~too~~ a few black lines
on claws of three lower
petals.

broad leaves, floating,
shiny, stamens
yellow, above water.

shrub 1 m. tall; leaves
partially developed; flowers
bright pink with red tube,
style reddish, stamens
pinkish-white, odor
strong not especially
unpleasant. (considerable
variation observed in
flower color and time
of anthesis).

checked 1951 Virginia

50

May 5 - 3 miles n.e. of
Independent Hill,
in *Pinus virginiana*
woods ~~soil~~ on red clay soil
33369 *Vaccinium vacillans*
abundant in understory

- 5 70 *Gaylussacia baccata*
abundant in understory
- 15 (71) *Vaccinium stamineum*
(72) common understory
- ~ 73 *Chimaphila umbellata*
local in ~~understory~~
sparse spots in understory
- 3 74 *Cypripedium acaule*
local in bare ^{open} spots
in understory
- 11 75 *Mitchella repens*
occasional in ~~understory~~
open spots in understory
- ~ 76 *Chimaphila maculata*
occasional in open
spots in understory

Prince William Co.

51

sparse mixture of younger
trees of deciduous species,
lower story 2-5 dm. tall of
Vaccinium and *Gaylussacia*.
clones very open, leaves
half developed. flowers
pale green flushed with
pink
- shrubs 2-5 dm. tall,
- flowers greenish red.
- shrub 6 dm. tall, leaves
slightly glaucous,
flowers mostly not
at anthesis yet, corollas
white when at full
anthesis, greenish white then,
fair-sized colony, shoots
widely scattered; leaves
glossy green, young
inflorescences pendent,
tepals deep bronze-purple,
lip pale pink.

prostrate; sterile.

May 6 - Indian Run above Shirley Highway,
6 miles west of Alexandria
beech-oak woods on
low alluvial knolls
and along streams

33377 *Fagus grandifolia*
common in wet ground

5 78 Carex

on earth in roots of
fallen tree

79 *Rhododendron nudiflorum*
occasional in sparse wood

80 *Hedysotis caerulea* (L.) T. & G.
common in openings
on sterile ground

* 81 *Rhododendron nudiflorum*
occasional in sparse wood

* 82 *Veronica*
one clump on gravel bar
in stream.

83 *Stellaria pubera*
common in sparse woods

84 *Amelanchier arborea*
common in "magnolia bog" along stream

85 *Viola*
common in wet muddy
gravel of "magnolia bog"

86 *Arisaema triphyllum* var.
common in low ground

small "magnolia bog"
with just a bit of
Sphagnum, wet
ground, partly gravelly
gravel.

tree 50 ft. tall, fallen
but still alive (possibly
flowering early).
caespitose

shrub 0.7 m. tall, flower
pink with red tube
tufts; corolla limb
lavender, tube and eye
yellow

shrub 0.6 m. tall; flowers
very pale pink with
red tube; little fragrance.
depressed, caespitose;
corolla whitish with
purple lines,rotate-campanulate

caespitose, flowers
white, petals deeply bifid.
shrub 4 m. tall, fruit
immature.

erect, flowers bright
violet.

spathe green with
white stripes, flap grey
(all seen the same)

54 1951 Virginia

33387 *Chrysosplenium*

" on surface of water
and ground in "magnolia bog"

88 *Cardamine bulbosa*
in wet low ground, common

89 *Epifagus virginiana*
common under beeches

Fairfax Co.

55

prostrate; stems
bronze-red.

erect, flowers white;
rhizome white
plants dry from last year.

nos. Ch. 1951 Virginia

56

Labels made
May 12 - Elk Wallow, Page Co.

former clearing now
filled with Robinia

33390 *Chelidonium majus*

occasional

91 *Viola*

91 *Viola*

common

92 *Viola kitaibadiana* var. *rufinervis*
common

93 *Corydalis flavula*
abundant

May 12, ^{new} Old Rag Post Office
site, Madison Co.

second-growth woods
of rather small trees.

94 *Rosa*
around old farm site,
brushy opening

95 *Vaccinium vacillans*
in woods on slope

96 *Prunus* [Discarded; demolished by insects]
abundant in brushy
opening around old ~~the~~ farm site.

97 *Salix*
scarce in brushy opening

DPB

Shenandoah Nat. Park

57

roots orange, leaves
light green, glaucous
beneath; flowers bright yellow
flowers bright violet

flowers pale blue-lavender,
st. lined in center
with purple.
flowers yellow

6000 ft.

sprawling bush, flowers
dull pink.

single compact clump,
leaves pale green, flowers
greenish rose color.

loosely branching
shrub, petals already fallen.
shrub 2 m. tall.

May 12, 1951 Virginia

58

Labels typed
May 12. - Weakly Hollow Road
above Nethers, Madison Co.
old house site in
second-growth woods

33398 *Lilium* ~~lilacinum~~ ^{lilacinum}
at base of shrubs, roadside

13 99 *Lysimachia vulgaris*
in small opening

13 33400 *Buxus sempervirens*
in small opening

11 01 *Oncidium spectabile*
in forest on rocky bottom of hollow

May 12. - Weakly Hollows

Road Frd., above Nethers, Madison Co.

11 02 *Saxifraga micranthidifolia* (Haw.)
wet ground near stream

11 03 *Ranunculus*
in road on wet ground

11 04 *Hedysarum caeruleum* (L.) Hook.
common on low ground in
woods near stream

May 12. - Nethers, Madison Co.

~~33404~~ roadside

33405 *Hedysarum purpurea* (L.) T. & G.
occasional

12 06 *Krigia virginica*
common

12 07 *Viola cucullata* Ait.
rare

Shenandoah National Park 59

500 m.

flowers violet

shrub 4 m. tall;

flo. lila, fragrant

shrub 1 m. tall,

fruit immature

flowers pale violet, lip and
spur white

340 m.

5.

Britt.

flowers white, anthers

bright orange.

flowers light yellow

flowers blue-lavender,
with yellow eye and tub.

300 m.

crest, flowers rose-purple

crest

leaves silvery green,
veins purple; flowers
bright purple.

May 1 - Old Rag saddle,
trail from Post Office site toLean-to
thin second-growth
woods of small trees

33408 *Fenestraria aurantiaca* L.

common in small openings

109 *Antennaria plantaginifolia*

common in sparse wood

11 *Tsuga canadensis*
occasional

12 *Vinca minor*
great colony in sparse woods

13 *Lycopodium complanatum*
small colony in woods

14 *Fragaria*
common in thin woods

May 13 - Big Meadow camp ground
Mixed woods, mainly
oaks and *Pinus strobus*,
the oaks scarcely beginning
to leaf out.

15 *Viola papilionacea* Pursh

common in camp ground
under trees

16a *Viola palmata* (possibly *x* *V. papilionacea*)

Viola palmata *x* *papilionacea*

17 *Ranunculus abortivus* L.?

18 *Ranunculus*
occasional in camp ground
under trees

Madison Co.

625 m. flowers deep orange-yellow.

" staminate - " pistillate

small sterile tree,
other larger ones seen.

600 m. forming a continuous
mat over ground,
flowers blue-violet.

prostrate, rhizome
above ground; sterile
scapes erect, petals white

Many pine in meadow with ~
dead twigs and branches, some undamaged
dead altogether. No obvious cause -
probably fungus disease. In one case
small beetles (Bostrychidae) burrowing in
leaves blue green, flowers
bright violet with
whitish center, with dark
veins, wings strongly
bearded
petals yellow.

May 13. Big Meadows - rolling meadow across from gas station.

Open, covered with grass, Carex, Viola, Tragaria, Achillea, Senecio, etc. Large patches of Polytrichum. Being invaded by several species of Rubus, Crataegus, Corylus, scattered Junipers (with dead branchlets as in pines), Robinia, Ribes, one patch of Prunus virginiana, etc.

On top of a knoll are a

33419 Ribes

invading open rolling meadowland

20 Anemone quinquefolia var. lancifolia?
local in low marshy place in meadow but above actually muddy ground

21 Carex

abundant in meadow or gently sloping ground

Ranger says pine blight appeared a year or two ago, that no one seems to know what causes it.

number of tiny Abies, planted by park service, I suppose. A broad low place, draining imperfectly over east edge, is marshy, with open moss meadow, patches of Epipactis, anemone quite common. No standing water but definitely wet ground. Many of plants in meadow form large colonies by underground rhizomes.

stiff shrub 0.8 m. tall; flowers green

rhizome white, + brownish, outside, buried 3-5 cm., outer surface of tepals pink to purplish, inside white. calms solitary.

not checked

64

1951 Virginia

Labels typed

May 13 - 1/2 mi. S. of Beahns Gap
on Skyline Drive.
sparse wood on gentle w. slope

33400

May 13 - Crescent Rocks, Page Co.

33422

Anemone quinquefolia var. lancifolia
very common on rocky flats

23 *Arabis laevigata*

occasional on talus
at foot of cliffs above road

24

Vicia caroliniana Walt.

common on steep road cuts
and in woods

25

Antennaria virginicus var. ^{argenteola}
common in sparse woods

26

Antennaria

common in sparse woods

27

Festuca ovina L.

dominant grass on dry
steep road cut-banks

May 13 - On and near upper (Sh. D.)
end of trail to The Neighbor, Page

28

Saxifrage

common on steep road cuts

Shenandoah Nat. Park 65

1075 m. Clumps of Clintonia above dry under cliff
(and) rock. rhizome white, buried
3-5 cm., flowers white
barely pinkish without.
somewhat glaucous;
petals white, sepals
purple tipped, flowers
nodding.

2500'
770 m.
slope

weakly ascending,
flowers dull lavender.

colonies scattered, not
forming dense mats.

colonies scattered,
not forming dense mats.
dense tufts, leaves wiry.

770 m.
Co.

leaves red-purple beneath,
purple margined; petals
white, disk gland orange,
filaments subulate, young
follicles red.

33429 *Epigaea repens*

common locally on slope
in *Quercus ilicifolia* scrub,
slope burned about 1917

- 30 *Barbarea vulgaris* R.Br. var. ^{anagallis} _{read} ^(Ophi) Trin. occasional on roadside

- 31 *Rhododendron roseum* (Loisel.) Rehd. occasional in *Quercus ilicifolia* scrub on slope

- 32 *Iris versicolor* var. *smalliana* Tern.
occasional in *Quercus ilicifolia* scrub on slope

- 33 *Rhododendron roseum* (Loisel.) Rehd.
occasional in woods
on steep slopes

- 34 *Betula*
rare in woods on steep
slope (said to be a small
patch some distance away)

- May, 3 - Skyline Drive at
Mt. Marshall Fire Road
near Skyline Drive, Rappahannock Co.
- 35 *Sambucus racemosa* var. ^(pubens) _{Wats.}
- occasional in forest on
steep slope

prostrate

flowers bright yellow.

shrub 1.5 m. tall; flowers
bright pink, tube almost
red, somewhat clove-scented
but also slightly skunk-like od.

flowers violet, with
orange patch at base
of limb of sepal and
extending down claw, this
with veiny whitish margin.

shrub 2 m. tall, flowers
bright pink with
red tube, fragrant
with somewhat clove od.
small tree 4 cm. diam. ⁱⁿ,
trunk white, branches
red-brown.

shrub 2 m. tall,
flowers white in
clusters longer than wide

68

1951 Virginia

May 12 - 1 mi. w. of
Rappahannock River,
3 mi. n. of Jeffersonton
Culpepper Co.

- grassy roadside at edge of woods
- 33436 *Krigia virginica*
common
- 37 *Myosotis*
common

Culpepper Co.

69

flowers orange.
flowers white.

May 27 - Sutland bog
Chimanthus, *Ilex* var., *Dianenia*,
Gaylussacia dumosa, *G. procumbens*,
 all in bloom. *Utricularia*
 blooming abundantly.
Drosera not in bloom.
Eriocaulon only vegetative.

Wet white gravel with
 patches of sphagnum
 and shrubs, low thickete

- 33438 39 *Amelanchier*
 in thickets, common,
 1 39 *Utricularia gibba*?
 common in open spots in moss
 3 40 rare in thickets
 3 41 *Gaylussacia procumbens*
 common in edges of
 thickets and on sphagnum
 patches
 1 42 *Ilex*
 occasional in thickets
 and on sphagnum patches.
 3 43 *Gaylussacia procumbens dumosa*
 abundant in sphagnum patches
 15 44 *Chimanthus virginicus*
 occasional in thickets

- shrub 3 m. tall,
 fruit immature.
 flowers yellow, leaves
 prostrate on wet soil.
 shrub 2 m. tall,
 flowers white, corolla
 pointing downward.
 shrub 0.8 m. tall (other
 taller), glaucous
 beneath, flowers
 reddish green.
 shrub 1.5 m. tall, leaves
 glossy, flowers white.
 erect shrubs from
 rhizomes buried in
 sphagnum about 2-4 dm. tall,
 flowers white.
 flowers white; fragrant.
 shrub 3 m. tall.

May 27 - Morningside

rich bottom-land forest.
largely *Liriodendron*, *Fagus*,
Quercus, etc. many large
trees, dense shade with
little or no underbrush,
Dennstaedtia, *Medeola*, *Luzula*,
etc., forming an uneven
and incomplete herbaceous
ground cover.

- 33445 *Cosmopolitanis* *Smilacina*
growing from under log
- 46 *Desmodium*
common in open disturbed
places at edge of forest
- 47 *Luzula*
common in woods
- 48 common in woods
- 49 *Medeola virginiana*
common in woods
about bases of trees
- 50 *Euonymus*
common under trees
- 51 *Fagus grandifolia*
one of dominant trees

no *Spirogyra* seen,
though it was looked
for under beeches.

flowers cream color
large spreading
clumps, flowers light
lavender-violet.
culms ascending
rhizome white, well
divided, fruit immature,
sharply 3-angled
slipper white, binned,
tepal pale green, anthers
orange, styles purplish.
weak green shrub,
sterile branches
prostrate, fertile erect,
1 m. tall, flowers
yellow-green, flat.
tree 25 m. tall, 5 dm. thick,
bark smooth, gray.

74 1951 Maryland

33452 *Panax*

very rare in forest, only one seen,

1 53 *Hedystis caerulea* (L.) Hochst.
occasional in forest

June 3 - Head of Broad Creek,
South River

weedy old field, sterile
eroded ground.

1 54 *Thlaspi arvense* L.
common

11 55 *Veronica arvensis* L.
common

13 56 *Valerianella locusta* (L.) Betsch.
local

Prince Georges Co.
Anne Arundel Co.

75

— flowers dull white.

flowers pale lavender,
tube yellowish.

erect; flowers white

erect; flowers pale
lavender.

plants pale, flowers
bluish white, mostly
past.

July 1951 Virginia

76

- Labels typed
June 18 Sleepy Hollow,
1 1/2 mi. s. of Falls Church,
around abandoned old
home - site in grove of
trees in pasture
- 33457 *Erigeron strigosum*
common in weedy
openings
- ✓ 3 58 *Rosa*
large flourishing colony
- ✓ 3 59 *Rubus occidentalis*
common in shade of
trees and or edges of thickets.
- ✓ 6 60 *Tilia europaea* L.
one tree

July 1 ~~s.s.e.~~ s.w. of Burke,
 $3\frac{1}{2}$ mi. s.s.e. of Fairfax
roadside banks and
thickets, patches of woods

✓ 61 *Asclepias purpurascens* L.
common locally on roadside bank
gregarious

✓ 62 *Medicago sativa* L.
occasional in edge of old field

✓ 63 *Orobanchus minor* L.
common in edge of old
field, on weeds or clover.

✓ 64 *Erigeron strigosus* var. *beyrichii* (T.)
common in old weedy field

Fairfax Co.

77

rays white
climbing, forming tangles
primocanes erect,
floricanes depressed,
canes glaucous, leaves
white beneath, fruit
black when ripe, sweet,
of good flavor.

large well formed
tree, probably persisting
from planting

100 m.

✓ 62 erect herb ~~1.2~~ m. tall,
flowers blue-violet.
erect, dry.

M.J.T. 9. rays white.

78

1951 Virginia

- 33465 *Dryopteris hexagonoptera* (Michx.) C. Chr.
common in oak woods
on quartz knob
- 66 *Luzula*
occasional in dense oak woods
- 67 *Cornus florida* L.
common in woods,
forming second layer
- 68 *Rubus occidentalis* L.
common in wet ground
along road. at edge of woods
- 69 *Lysimachia ciliata*
common in wet ground along road
- 70 *Geum canadense* L.
rare in wet ground along road
- 71 *Stachys*
common in wet ground
along road
- 72 *Silene antirrhiniflora* f. *deaneana* Steyer
rare in edge of wheat field
- 73 *Thalictrum polypgamum* Muhl.
local in wet ground
- 74 *Lobelia spicata* var. *scoposa* McV.
occasional on ~~the~~ roadside bank
- 75 *Vaccinium vitis-idaea* T. M.
occasional on high roadside bank
- 76 *Gaultheria procumbens*
occasional on high roadside bank
- 77 *Hedysarum purpureum* var. *purpureum*

Fairfax Co.

79

- culms weak, procumbent
small tree 5 m. tall,
fruit immature
primocanes erect,
glauous, glaucine
low, with erect branches,
fruit black when ripe.
erect flowers bright
yellow, with slight
reddish spots in center.
erect, petals white.
- erect, harsh; flowers
magenta-pink.
tips of calyx purple.
- herbs 2 m. tall;
stamens white;
leaves glaucous beneath
- low shrub 4 dm. tall,
stems green, fruit glaucous.
- low shrub 4 dm. tall,
fruit black.
- fruit immature

- 33479 *Vaccinium stamineum* L.
occasional on high roadside bank
in open.
- 79 *Castanea pumila* (L.) Mill.
occasional at edge of
thickets along road.
- 80 *Vitis labrusca* L.
climbing down roadside bank.
- 81 *Quercus stellata*
isolated tree in
edge of field
- 82 *Galium pilosum*
under large tree in
edge of field.
- 83 *Castanea pumila* (L.) Mill.
~~shrub~~ in brushy
place along road.

July 15 - Lee Blvd. s. of
Falls Church

- 84 *Orobanchaceae* minor fm.
in weedy old field with
grasses, *Lonicera japonica*,
and *Solidago*

July 21 - 1 1/4 mi. s. of Annandale
on Back Lick Run

- 85 *Elaeagnus umbellata* ~~Thunb.~~
common in edges of
woods and fields, roadsides

shrub; leaves glaucous
beneath, fruit green,
glaucous, immature.
shrub 1.5 m. tall,
leaves grayish beneath,
vine, climbing on
bushes, fruit immature.
spreading tree
with rounded
crown, wide spreading
drooping branches;
leaves dark green,
glossy above, glaucous
beneath.
root yellow, flowers
red.

shrub 1 m. tall.

perfectly dry

shrub, n. tall (others
up to 2 1/2 m. twigs
rusty, leaves silvery beneath,
green above; fruit immature).

^{not checked}
82 1951 Virginia

^{hand typed}
July 21 - Indian Run
above Shirley Highway
oak-beech woods
in hollow along stream
33486 *Erbelia inflata*
⁽⁵⁾ common in disturbed spots

- b 37 occasional in wet ground
b 38 *Lactuca*
rare in ~~the~~ disturbed
places
b 39 *Polygonum paniculatum* L.
~~seen~~ colony in
wet disturbed place

July 21 $1\frac{1}{2}$ mi. s.e. of
Annandale
roadside bank at
edge of woods, sandy
loam soil, Ericaceae
abundant
1 90 *Linum intericinum* Bickn.
occasional ~~in~~ in
Vaccinium - *Gaultheria*
ground cover
1 91 *Polygonatum biflorum* (Walt.) Ell.

Fairfax Co.

83

erect, fls 1-8 dm. tall,
flowers very pale
lavender.

erect, leaves slightly
glaucous beneath;
flowers yellow.
herbs $\frac{1}{2}$ - $\frac{17}{17}$ m. tall.
flowers rose-purple

erect from branched
fleshy white rhizome.
this horizontal and
buried 2-4 cm.,
fruit green, pendent,
spherical, fleshy.

84 1951 Virginia

Aug. 12 - 3 mi. n. n.e. of
Manassas, s. of Bull Run
weedy roadside places
around edge of patch
of pine woods

- 33492 *Asclepias*
rare at edge of woods
1, 93 *Prunella vulgaris* L.
common in weedy place
1, 94 *Apoocynum cannabinum* L.
rare in weedy place
1, 95 *Asclepias verticillata*
rare in weedy place
6 96 *Liatris*
common in weedy place
1 97 *Solidago*
rare in edge of forest
1 98 *Asclepias incarnata* v. *pulchra*
(Roth.) Pers.
rare in wet weedy place
1 99 *Stylosanthes*
common at edge of forest

Aug. 12 - Broad Run, 1 mi. n.
of Bristerow, 4 mi. s.w. of
Manassas
narrow woods along stream
banks, and low bluffs of purple trachyte

- 33500 *Pennisetum setaria*
small colony along roadside
1, 01 *Setaria*
common along roadside
1, 02 *Polygonum*
common along roadside

Prince William Co.

85

flowers light green
flowers light purple
erect, leaves ascending
fruit pointing downward
flowers white, perianth
slightly bronze toward
tips
stems erect, flowers
brilliant magenta
flowers yellow

herb 0.8 dm. tall; flowers
dull rose-pink.

erect, spike arcuate,
green
spike erect, green.
tangled herb; flowers
pink.

new checked
86 1951 Virginia

33503 *Polygonum punctatum*
15 weedy roadside in
wet ditch

16

17 04 *Corylus*

weedy roadside

05 *Rhus aromatica* Ait.
rocky top of ~~streambank~~

06 *Carya*
edge of woods

07 *Celtis occidentalis*
common in understory of

08 *Geum canadense*
common in dense shade

09 *Campsis radicans*
climbing over low rocky bluff

10 *Lechea Leggettii*
rare on ~~the~~ eroded ~~soil~~
weedy roadside

11 *Lechea minor*
common on eroded
weedy roadside

12 *Olymus*
common in woods in shade

Prince William Co.

87

erect, decumbent, glistering;
extremely variable by
statute

tangled much-branched
herb, flowers white.

erect, heads white;
statue extremely variable
subscandent shrub,
tangled.

small tree, fruit
immature

small tree 4 m. tall; sterile
stems ascending

extensive vine; caudex
orange to vermillion
rosettes dried up;
capsules red brown.

rosettes dried up;
capsules red-brown.

erect or almost so,
not caespitose.

me checked 1951 Virginia

88

leeds typed

Aug. 19 - Accotink Creek,
just above crossing of
Shirley Highway, 1 1/4 mi.
n. n. w. of Phicks
mixed deciduous woods

33513 *Cyperus*
in wet pebbly bed of stream

14 *Mimulus?*
wet edge of stream

15 *Mimulus ringens*
occasional on weedy
~~margin of gravel bank~~
bank of stream

16 *Panicum*
common along stream bank

17 *Prunella vulgaris* L.
common on weedy slope just
above stream

18 *Phlox paniculata* L.
rare on weedy slope just
above stream

19 *Rudbeckia laciniata*
occasional on weedy slope
just above stream

20 *Lobelia cardinalis*
rare on stream bank

21
common on stream bank

22 *Leersia*
common on roadside

23 *Buddleja*
one plant on roadside

Fairfax Co.

89

spikelets greenish-yellow
erect, basal part of stem thickened, not winged,
calyx strongly angled,
corolla purple with
yellow palate, throat ~~purple~~
erect corolla purple
with yellow palate

flowers purple,
lower lip pale.
erect; flowers magenta

erect, stem glaucous;
ditch green; rays yellow.
flowers bright red.

weakly erect, panicle
drooping
culms weakly ascending.
Towering shrub 1.3 m, tall.
flowers purple, strongly honey-scented.

no check 1951 Virginia

90

feels tips
Aug. 19, f - Shirley Highway
 $\frac{1}{3}$ mi. s. of Garfield
deciduous forest on
creek-bottom-land,
partially flooded at times

33524 *Polystichum acrostichoides* (Michx.) Schott
occasional, just above flood level

13 25 *Galium pilosum* triflorum Michx.
common on forest floor

14 26 *Tipularia discolor* (Pursh) Nutt.
rare on forest floor

15 27 *Galium pilosum* Ait.
on forest floor

16 28 *Lycopodium uniflorum* Michx. ?
common on ground that
is occasionally flooded

17 29 *Dryopteris noveboracensis* (L.) Gray
growing on mossy hummock
in sometimes flooded
bottom land

18 30 *Hieracium scabrum* Michx.
occasional on ^{wet} highway embankment

19 31 ~~ss~~ *Lobelia inflata*
occasional on weedy highway
embankment

20 32 *Apis americana* Medic.
weedy highway embankment

21 33 *Cassia fasciculata* Michx.
common on weedy roadside

Fairfax Co.

91

(Michx.) Schott ponds ascending.

procumbent; roots
yellow, turning dull
red on drying.
— tubers dorsiventrally flattened;
stem and flowers
bronze; leaves none at this time.
— stem procumbent.

erect, leaves dull green,
flowers white, corolla
lobes slightly flaring;
rhizome only slightly thickened
rhizome strongly
ascending; rhizome
shallowly buried, brown
but pale at tips.
— erect, rays yellow.

erect; flowers pale lavender

twining over bushes; flowers
purpleish brown.
— leaves closing soon
after picking; flowers
bright yellow.

Aug. 25. Trip from Falls Church,
via Centerville, Manassas,
Nokesville, Catlett, to
Morristown. - General
observations.

A few inner leaves of
Liriodendron are yellow.

Cornus florida in
exposed places just
beginning to get a
bronze-purple tinge.
In exposed and only
moderately sheltered
places the leaves now
hang vertically, with
a tendency to curl.

In low moist spots
with deep shade
they are divergent as
earlier in season.

Nyssa sylvatica - some
leaves turning bright red.

Rhus copallina - some
leaves turning red.
Fruit red-purple.

Juglans nigra(?) beginning
to lose leaflets.

94

1951

Virginia

Aug. 25 - Kettle Run, $\frac{1}{4}$ mi.
 e. n. e. of Nokesville, $1\frac{1}{4}$ mi.
 w. s. w. of Manassas
 roadside

- 33534 *Hypericum*
 5 in ditch by road, occasional
- 2 35 *Astragalus hispidus*
 abundant in roadside ditch
- 5 36 *Viburnum prunifolium*
 small colony on roadside
 bank in full sun.
- 5 37 *Commelinia*
 common in dry roadside ditch

Aug. 25 - $\frac{1}{4}$ mi. n. of Morrisville,
 $3\frac{1}{2}$ mi. e. of Culpepper,
 thin oak woods with
 very little undergrowth,
 on very slight slope

- 1 38 *Verbena scabra*
 in weedy cleared ground
- 4 39 *Hedosyne pulchrioides*
 common in weedy cleared ground
- 2 40 *Viburnum acerifolium*
 rare in forest
- 1 41 *Mitchella repens*
 occasional in forest
- 11 42 *Monotropa uniflora*
 rare in forest

Pusey William Co.
 Fangquier Co.

200'

61 m.

95

shrub 0.8 m. tall,
 flowers yellow, stamens
 numerous; fruit immature.
 forming low tangled
 masses; sterile.

shrub 1.5 m. tall, leaves
 bronze, fruit pale
 green, pendent.

decumbent to ascending,
 flowers bluish, faded
 at 5:30 p.m.

400'

122 m.

erect; flowers white.

plant with very
 strong pennyroyal odor;
 flowers lavender.

shrub 1 m. tall;

fruit purple-black.

prostrate, forming
 a thin mat, fruit
 bronze green.

white, leaves turning
 black.

96

1951 Virginia

33543 ~~Auricularia~~ *geranoides*
12 *aureolalis*

occasional in

11 44 ~~Acrostichum~~ *Polystichum acrostichoides*:
rare in shallow stream
ravine with patches of
*sphagnum*12 45 *Dryopteris noveboracensis* (L.) Gray
occasional, especially
in damp depressions.13 46 *Desmodium*
scattered but common
in woods

Fauquier Co.

97

122 m.

sterile fronds depressed,
fertile ~~seed~~ ascendingleafy and flowering
stems erect, emerging
from duff layer separately;
flowers bright lavender.

- Aug. 31 Blue Ridge Parkway
3 mi. east of Deep Gap
rolling meadows
surrounded by scrubby
second-growth, with
scattered saplings
- 33547 *Polygala sanguinea* L.
common in sandy
part of meadow
- 4 48 *Desmodium*
occasional on thin soil
on schistose rocks
- 7 49 *Lycopodium unifolium* Michx.
local colony in semi-shade
- 6 50 *Euphorbia corollata* L.
scattered in meadow
- 4 51 *Cacalia atriplicifolia*
scattered in meadow
- 1 52 *Vaccinium*
occasional in edge of woods
- 5 53 *Ilex laevigata* (Pursh) Gray
occasional ⁱⁿ edge of woods

3700'

- 1128 m. heads rose-purple
at top, whitish below.
roots with strong
wintergreen odor.
virgately branched
herb ^{up to} 0.8 m. tall,
- flowers lavender
erect, stolons delicate,
horizontal, rarely
tuberiferous; corolla
white, lobes flaring.
erect from deep rooted
erect rootstock;
appendages white.
erect, leaves very glaucous
beneath; flowers white.
shrub, m. tall; leaves
white beneath; fruit
green, subglobose.
shrub 1.5 m. tall; fruit
immature.

100 1951 North Carolina

Aug. 31 - Big Pine Creek,
on Blue Ridge Parkway n.e. of
Roaring Gap
~~Tennessee~~ broad-leaved
forest, mostly oak

- 33554 *Xanthorhiza simplicissima* Marsh.
common on creek-bank
3 5 55 *Clethra acuminata* Michx.
overhanging creek bank
2 56 *Prunella vulgaris*
common along roadside
4 57 *Rubus*
common on floor of ~~sparse~~
part of woods
58 *Viburnum*
occasional in woods
12 59 *Spiranthes gracilis* (Bigel.) Beck
occasional, grassy roadside

Wilkes Co.

~~2000'~~
2000'
600m

low shrub, sparingly
branched, fruit immature
shrub 1.5 m. tall;
- spikes pale.
flowers purple

prostrate, fruiting
branches erect; fruit black.
shrub 2 m. tall, fruits
immature.
erect, flowers white.

101

- Aug. 31 - Rocky Knob Park,
Blue Ridge Parkway
in ~~rocky~~^{dry oak} woods on broken
mica schist.
- 33560 *Hedysarum purpureum*
common in rocky ground
- 35 61 *Hieracium*
common on rocky ground
- 35 62 *Campanula divaricata* Michx.
occasional in rocky ground
- 35 63 *Aster divaricatus* L.
dominant in ground cover
in woods on rocky ground
- Sept. 1 - Rocky Knob, Blue
Ridge Parkway
dry oak woods on slopes
of broken mica schist.
- 64 *Kalmia latifolia* L.
locally dominant in
undergrowth
- 65 *Menziesia pilosa* (Michx.) Pursh
locally dominant in
undergrowth
- 66 *Convallaria montana* Raf.
common locally
- 67 *Solidago bicolor*
common at top of knob
- 68 *Polypodium vulgare* var. *vitifolium* forming mat on
rocks at top of knob

mica schist.

caespitose, no rosette; flower
pale lavender, mostly gone.
- erect, flowers yellow.

fls. blue-violet.

erect; rays white.

shrub 1.5 m. tall
fruit immature

shrub 1 m. tall
fruit immature

scattered plants, leaves
turning yellow; fls
fruits red, fleshy, globes.
- pendent.
flowers white.

forming mat on
rocks.

104 1951 Virginia

- 33569 *Galax asplylla* L.
common locally on
mossy shrubby banks
under trees
- 70 *Monotropa hypopithys* L.
rare, on open mossy bank
- 71 *Orobanche ramosa* L.
very rare on slope in
forest, little undergrowth
or ground-cover:
- 72 *Aureolaria*
occasional on wooded
slope
- 73 *Penstemon*
common on wooded slope.
- 74 *Galium latifolium* Michx.
common on wooded slopes
- 75 *Polygonatum canaliculatum* (Muhl.) Muhl. ^{Wurz.}
occasional, local on slopes
- 76 *Aster divaricatus*
dominant in ground cover
in forest.
- 77 *sedum*
abundant
- 78 *Hedysotis purpurea*
common, esp. along trail

Sept. 2 Rocky Knob Park

- 79 *Conopholis americana* (L.) Wallr.
in oak forest on the scree
outcrop

Floyd Co. - Patrick Co boundary 105

- rhizome prostrate,
plants colonial; leaves
glossy, scape erect.
plant ~~yellowish~~.
plant ~~yellowish green~~, ~~orange~~ bronze-pink
erect, ~~orange~~ bronze-pink
- caespitose, stems
ascending; flowers bright
yellow.
stems erect.
- caespitose
rhizome thick, constricted,
horizontal, branched, buried
rhizome ~~vertical~~, horizontal,
rays white, disk reddish.
outer surface slightly glaucous,
appressed close to ground,
dead scapes erect.
extremely variable in
stature and leaf outline.
flowers pale lavender.

small clumps,
already dead
and dry.

Forest on ridges of mica schist is largely a mixture of oaks, *Q. rubra*, *Q. ~~binna~~*^{binna}, *Q. velutina* (?), *Q. alba*, etc. with some *Betula lenta*, occasional *Carrya*.

The stature of this forest is rather low, lower on ridges than slopes.

The ground cover is, in places, pure *Aster divaricatus* here and there varied by galax, scattered *Solidago*, *Cornallaria*, *Campanula divaricata*, *Galium latifolium*, *Hedysarum purpurea* (common along trails but present away from them), and with ~~open~~ base moss-covered places. Shrub layer mainly of *Kalmia* and *Menziesia*, about 1.5-3 m. high.

Ferns rather scarce.

At this time the forest appears rather dry. On ridges the herbs have a rather wilted appearance.

In old fields the invading tree is either *Betula lenta* or *Robinia pseudo-acacia*.

Ridge top varies from open cleared meadow, largely mowed for hay, to oak forest with very conspicuous under brush of Ericaceae - Rhododendron, Kalmia etc., to mixed oak + hemlock or pine forest. *Pinus strobus* is very prominent, mostly young, stands rather even aged. Probably extensively planted in reforestation.

Meadows being invaded by locust and white pine.

Slopes mainly more wooded than tops of ridges.

now checked
110 1951 Virginia

label typed
Sept. 10 - Sleepy Hollow,
 $\frac{1}{2}$ mi. s. of Falls Church
33580 Buddleia
single plant along roadside

- Sept. 23 Pohick Creek, 2 mi.
s.w. of Pohick, 10 mi. s.e. of
Alexandria
mixed hardwood forest
on light colored clay soil
- 81 *Hydrangea arborescens*
roadside thicket
 - 82 *Monotropa uniflora*
in layer of dead leaves
 - 83 *Chimaphila maculata*
common on floor of forest
 - 84 *Platanus occidentalis* L.
occasional along creek
 - 85 *Chimaphila umbellata*
occasional on floor of forest
 - 86 *Elephantopus caroliniana*
roadside in weedy clearing
 - 87 *Monotropa hypopitys* var.
large colony on forest
floor in ^{partly} fairly often free
of undergrowth

Fairfax Co.

111

shrub 2 m. tall,
flowers bright purple,
with strong honey od.

30-50 m.

Quercus spp., *Acer*, *Carya*,
— *Tagus*, *Cornus*, etc.
weak shrub 1.5 m.
tall.
dry, dead, dark brown
leaves variegated
tree 10 m. tall, crown
rounded.
small open colonies;
leaves glossy green; all
plants seen sterile.
~~Wet~~ herb, up to 0.8 m. tall.

single or in small
clumps, stems and
base of flowers coral-
vermillion, flowers
yellow distally, odorless;
root very fine,
embedded in mass
of mycelium-filled
gray soil and humus.

Nov. 26, 1951 Virginia

112

Labels typed

33988 *Alnus serrulata* Willd.

on creek bank at
edge of water

89 *Tipularia*

on rocky side of ravine

90 *Epifagus virginiana* (L.) Bart.
under beech trees on
side of ravine.

91 *Fagus grandifolia*
common in forest

92 *Polyodium vulgare* var.
common on rocky side of ravine

93 *Liatris*

small colony along roadside

94 *Aronia arbutifolia*

occasional along roadside

95 *Euonymus americanus*
common in edges of woods

96 *Oenothera fruticosa*

on roadside bank, local.

97 *Linum virginianum* L.

occasional on roadside bank

Taiwas Co.

113

shrub 2.5 m. tall.

rhizome gray,
plant and fruit dark
purple-bronze.
— plant bronze with
purple stripes; flowers
purple striped.
tree 15 m. tall, with
gray smooth trunk,
steale twigs brown.

virginianum. rhizome only slightly
sweetish, slightly aromatic.
flowers brilliant
purple.

— shrub 1.5 m. tall,
ripe fruit scarlet.
weak shrub 1-1.5 m. tall,
stems green, fruits
rose purple, seeds
scarlet.

procumbent

erect, flowers yellow.

114 1951 Virginia

Sept. 27 - Sleepy Hollow,
east of Tripp's Run, 1 mi.
S of Falls Church
11598 *Perilla frutescens*
small colony in doorway

Fairfax Co.

115

erect; flowers pale
pink, anthers deep purple.

Labels typed

Sept. 30 - just west of
head of Broad Creek estuary,
tributary of South River —
mixed hardwood forest
with some pine, on fine sandy
soil. alt. 25 m.

33599 *Chimaphila maculata*
common in open pine
stand, with no under-
growth, ~~thick~~ layer of dried
needles 3-6 cm. thick.

33600 *Lycopodium complanatum*
abundant locally,
in places forming
ground-cover

01 *Panicum*
common along old wood
road grown up to weeds

02 *Elephantopus*
local along somewhat
shaded old wood road
grown up to weeds.

03 *Melampyrum*
common in open pine stand
with no undergrowth

04 *Elephantopus*
local in shaded old
wood road grown over by weeds

05 *Heterotheca*
common along shaded old
wood road grown over by weeds

06 *Cyperus*
rare along shaded old
wood road

Patch of open pine woods
some acres in extent, no
undergrowth, canopy thin
but complete. Father O'Neill
says was a tobacco field 25-30 years ago.

rhizomes prostrate,
white, leaves
variegated.

rhizomes on surface
of ground, leafy
branches erect,
spikes erect.

loosely caespitose,
culms ascending.

erect

past fruiting

erect

rays bright yellow.

118

119



